



Submittal Data Sheet

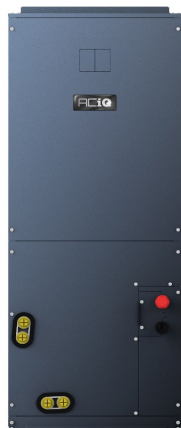
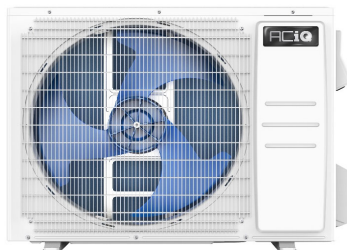
Indoor Unit Model#: ACiQ-24-AH-E-32

Outdoor Unit Model#: ACiQ-24-HP-E-32

24K R32 Central Ducted Air Handler & Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

System Product Code: 81017553429
Indoor Unit Product Code: 81017553306
Outdoor Unit Product Code: 81017553368



INDOOR UNIT SPECIFICATIONS

ESP Rated / Range (in. w.g.)		0.5 / 0~1
Indoor Air Flow (Hi/Mi/Lo) (CFM)		800 / 680 / 560
Indoor Noise Level (Hi/Mi/Lo) (dBA)		44 / 42 / 40
Indoor Fan Motor Speed (Hi/Mi/Lo) (rpm)		930 / 885 / 840
Indoor Fan Motor Output Power HP(W)		1/3 (250)
Dimension (W×D×H)	inch	17-1/2" x 21" x 45"
	mm	445 x 534 x 1143
Package (W×D×H)	inch	21-1/16" x 27-3/4" x 51-9/16"
	mm	535 x 705 x 1310
Net/Gross Weight	lbs	112.4 / 129.0
	kg	51.0 / 58.5

OUTDOOR UNIT SPECIFICATIONS

Outdoor Fan Speed (rpm)		870
Outdoor Air Flow (Max) (CFM)		2059.0
Outdoor Noise Level (dBA)		57
Dimension (W×D×H)	inch	38-9/16" x 15-1/4" x 27-9/16"
	mm	980 x 388 x 700
Package (W×D×H)	inch	40-3/16" x 16-15/16" x 30-5/16"
	mm	1020 x 430 x 770
Net/Gross Weight	lbs	101.4 / 108.0
	kg	46.0 / 49.0

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	17.00	HSPF2-4	8.50
EER2	10.50	COP	3.40
Operating Temperature Range °F(°C)		61 ~ 90 (16 ~ 32)	

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	23000
Min/Max Capacity	6000 ~ 26000
Ambient Temperature Range °F(°C)	5 ~ 125 (-15 ~ 52)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity @ 47°F	24000
Min/Max Capacity	4000 ~ 26000
Rated Capacity @ 17°F	19000
Rated Capacity @ 5°F	18600
Ambient Temperature Range °F(°C)	5 ~ 75 (-15 ~ 24)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Capacity (W)	6600
Input (W)	1825
Rated Current (A)	8.3
Rated Input Inverter Current (A)	15
Thermal Protection Temperature (°C)	115
Refrigerant Oil	Ester Oil VG74
Refrigerant Oil Charge (mL)	500

ELECTRICAL SPECIFICATIONS

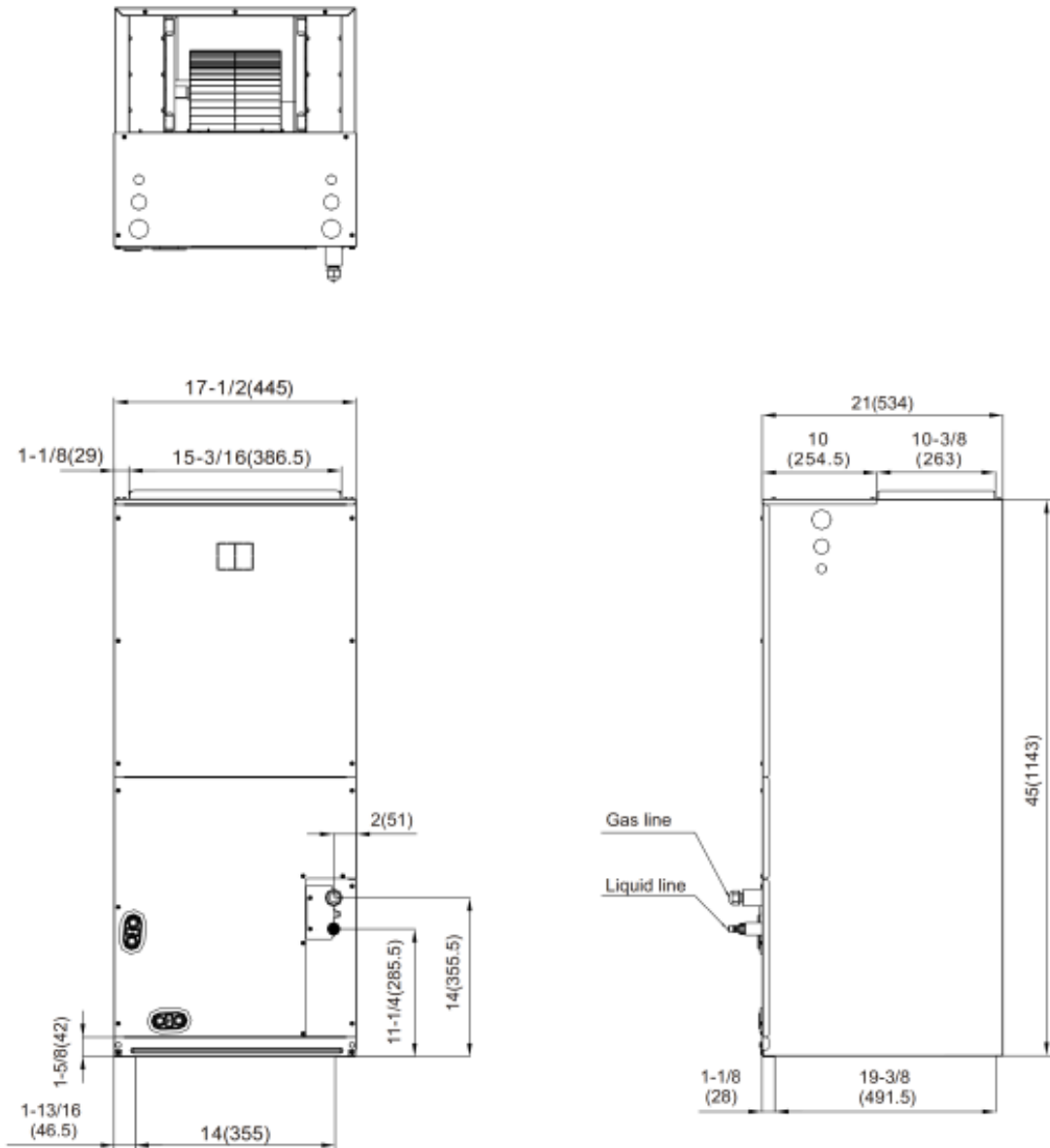
Indoor Power Supply	208/230V, 1 Ph, 60Hz
Indoor MCA	3.7
Indoor MOP	6
Recommended Indoor Power Wiring (AWG)	16
Recommended Indoor Signal Wiring (AWG)	22
Outdoor Power Supply	208/230V, 1 Ph, 60Hz
Outdoor Unit MCA	20
Outdoor Unit MOP	30
Recommended Outdoor Power Wiring (AWG)	12
Recommended Outdoor Signal Wiring (AWG)	22
Max. Input Consumption (W)	3700
System Power Input @ Cooling (W)	2190
System Power Input @ Heating (W)	2069
Max. Current (A)	16.5
Rated Cooling Current (A)	9.72
Rated Heating Current (A)	9.18
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
AWG: American Wire Gauge (AWG)	W: Watts (W)

REFRIGERANT PIPING SPECIFICATIONS

Refrigerant Type	R32
Refrigerant Charge Amount oz(g)	49.38 (1400)
Liquid Size O.D. in(mm)	3/8" (9.52)
Gas Size O.D. in(mm)	5/8" (15.88)
Max. Piping Length ft(m)	98' (30)
Max. Height Difference ft(m)	49' (15)
Connection Method	Flare

Indoor Unit Dimensions

(unit:in.[mm])

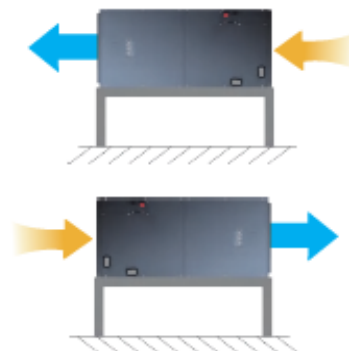


Indoor Unit Installation Options

Vertical, horizontal or inverted installation to meet most installation requirements



Vertical



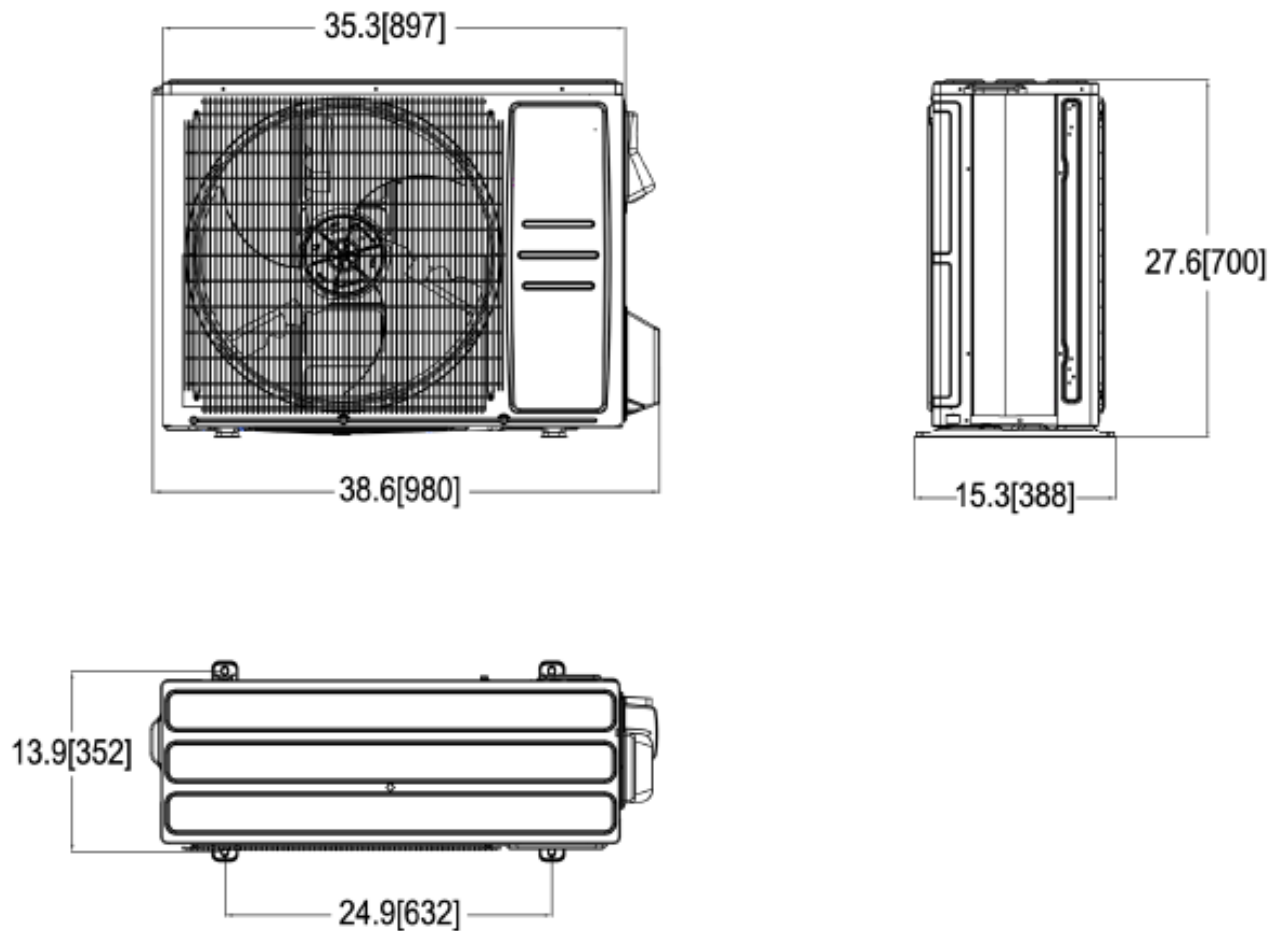
Horizontal



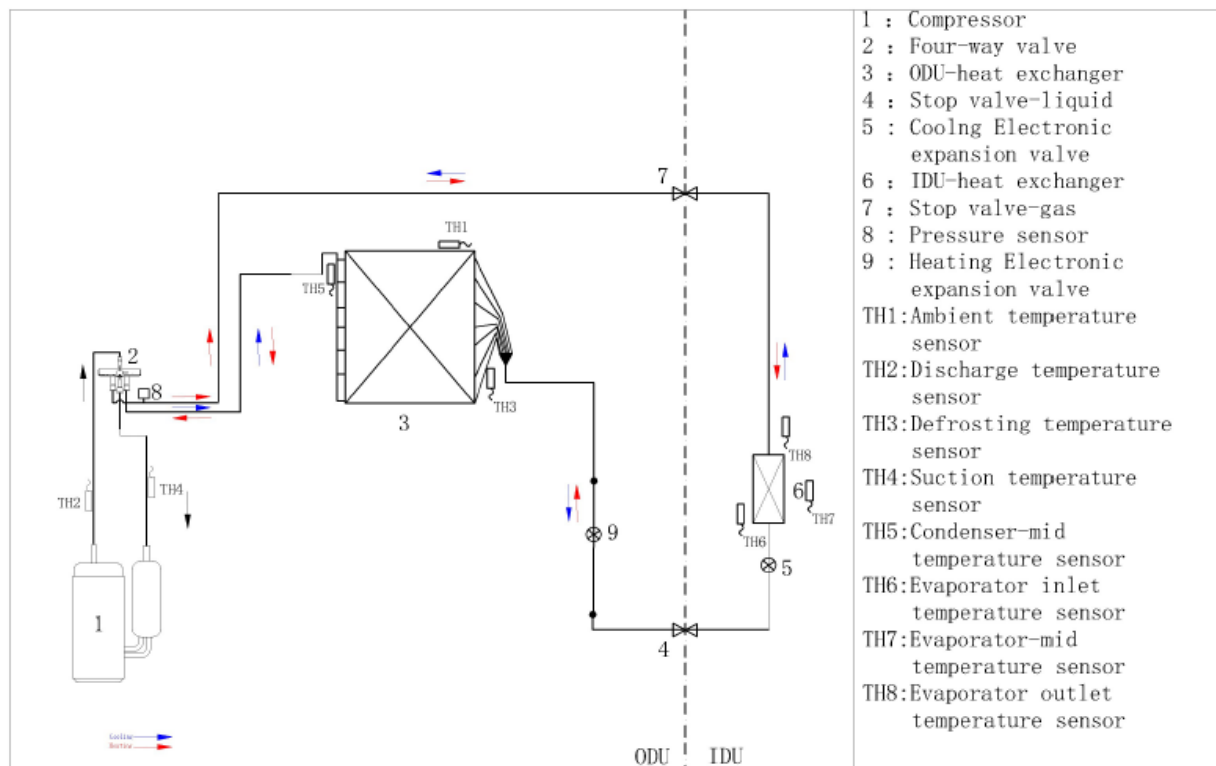
Inverted

Outdoor Unit Dimension

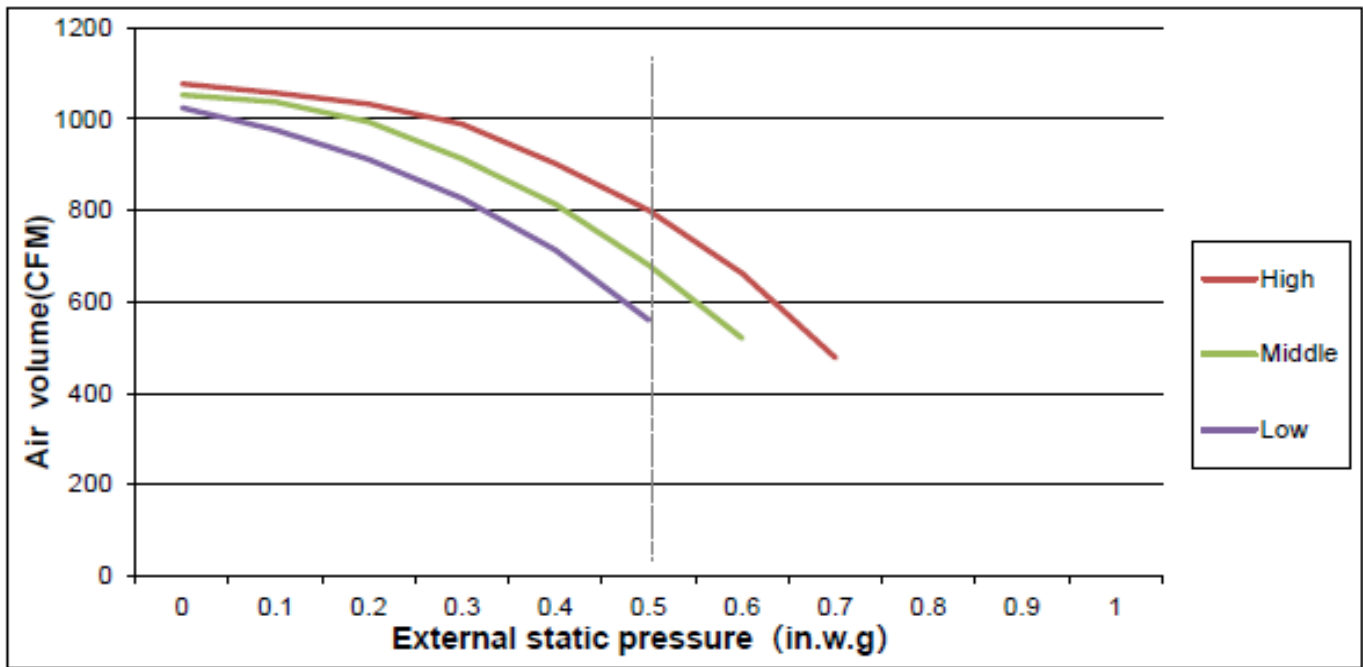
(unit:in.[mm])



Refrigerant System Diagram



Fan Performance For Indoor Unit



Features

- Multi-position installation options to suit application/installation requirements: vertical, horizontal, and inverted
- R32 environmentally friendly refrigerant
- Wide ambient temperature range: 5°F~125°F (-15°C~52°C)
- Wide voltage range: 170~253V power supply to adapt to any unstable voltage, protecting the PCB against a power surge
- High Efficiency: 16~18 SEER2 Rating
- Auto-Restart Function
- High ESP: Max. ESP up to 1 in. w.g.
- Fan & evaporator slide out design
- Multiple protection functions
- System allows for extended refrigerant piping length (up to 164 ft., depending on system/unit capacity) making it perfect for small or large homes